AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A control device for a vehicle alternator, comprising: an alternator connected to a battery mounted in a vehicle;

a regulator including a regulator IC integrated circuit (IC) for adjusting the a power generation voltage of the alternator; and

an ECU electronic control unit (ECU) connected to the regulator,

wherein an average value obtained by performing an averaging process on <u>an</u> ON time of a DF duty of field coil (DF) signal measured during <u>a</u> predetermined sampling time is used as <u>an</u> ON ratio information of the DF signal inputted from the regulator to the ECU.

2. (Original) A control device for a vehicle alternator according to claim 1, wherein the regulator IC comprises:

a power transistor for performing ON/OFF control of a field current of the alternator;

a counter for measuring the ON time of the DF signal as a counter value, the counter value being cleared to 0 by a reset signal;

a timer for generating a sampling signal and the reset signal in each sampling time;

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an averaging circuit for performing an averaging process on the counter value in response to the sampling signal; and

a storage circuit for storing the average value calculated by the averaging circuit.

- 3. (Original) A control device for a vehicle alternator according to claim 1 or 2, wherein the sampling time is set to an arbitrary value in advance.
- 4. (Original) A control device for a vehicle alternator according to claim 2, wherein the DF signal is a gate logic signal of the power transistor.
- 5. (Currently Amended) A control device for a vehicle alternator according to claim 4, wherein the regulator IC includes an AND gates gate, and the AND gate inputs a clock signal to the counter during an ON period of the gate logic signal.
- 6. (Currently Amended) A control device for a vehicle alternator according to claim 2, wherein the FD DF signal is a field logic signal on a side of a collector terminal of the power transistor.

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7. (Currently Amended) A control device for a vehicle alternator according to claim 6, wherein the regulator IS IC includes an OR gate, and the OR gate inputs a clock signal to the counter during an OFF period of the field logic signal.